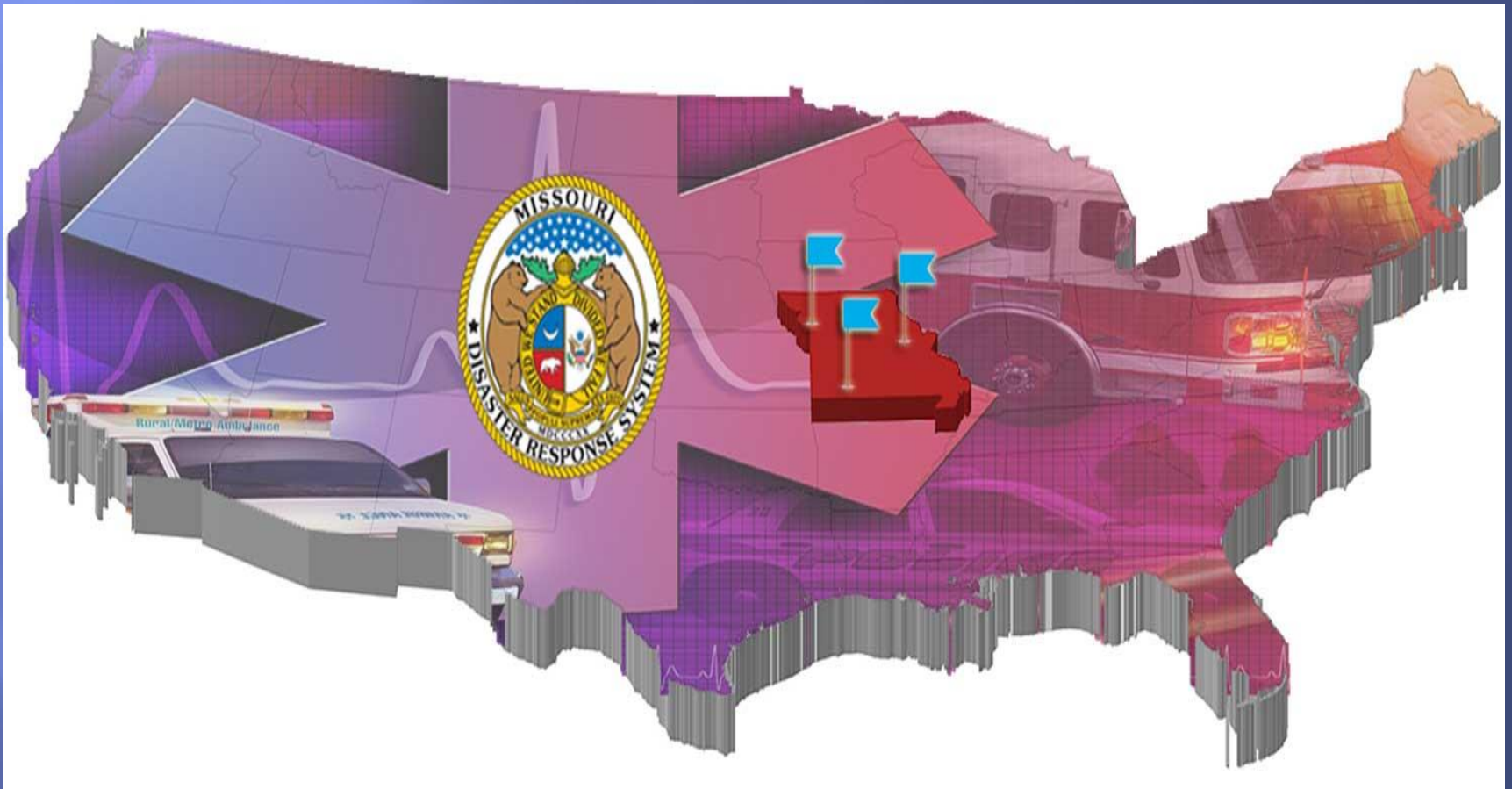


# MISSOURI DISASTER RESPONSE SYSTEM

It is the mission of the Missouri Disaster Response System to temporarily supplement State and Local ESF #8 capabilities by training, equipping, deploying and sustaining a specialized and focused range of health care, medical and fatality management capabilities.



# Fatality Response



# Development of State Mass Fatality Plan

- ▣ Development of fatality team and equipment to exceed or match the Federal DMORT
- ▣ Development of mutual aid plan
- ▣ Develop a process of recovering remains
- ▣ Identification of remains
- ▣ Determining a cause of death
- ▣ Returning remains over to family

# MOMORT

## Missouri Mortuary Response Team

- ▣ Deployed at the request of the locals
- ▣ 200 + member team of Pathologist, Death Investigators, MSHP, Dental Pathologist, Anthropologist, X Ray Tec's, and others.
- ▣ Brings full portable morgue.



# MOMORT

## Fatality

Dr. Carl Stacy UMC  
Pathologist

Dori Burke  
M.E. Investigator

Dr. Eric Wilson  
Lead Dental Pathologist

Joan Harding  
Branch Leader

Chris Howard  
Liaison

Steve Fine  
Liaison

Louis Chapman  
Logistic Chief

# MOMORT PARTNER

Missouri Highway Patrol

Missouri National Guard

KCRMORG

# Partners Reasonability

- ▣ Missouri Highway Patrol
  - ▣ Missing Persons, DNA and Fingerprinting
- ▣ Missouri National Guard
  - ▣ Body Recovery
- ▣ KCRMORG
  - ▣ Backfill MOMORT when needed

# Mass Fatality Information Systems

- ▣ The management of fatality-related data is critical to the successful outcome of a mass fatality operation. Robust software programs capable of handling antemortem and postmortem record management are essential.
- ▣
- ▣ In the event of a mass fatality, the jurisdiction's Medical Examiner/Coroner (ME/C) has the authority to determine what software will be used to manage mass fatality related data. If the ME/C Office is already using an electronic case and workflow management system, this decision becomes more difficult. Some considerations include:
  - ▣ Does the existing system capture antemortem data and have antemortem and postmortem matching capability?
  - ▣ Does double data entry make sense, e.g., using existing software and software developed specifically for mass fatalities?
  - ▣ Is it possible to export data from one system to the other system?
  - ▣ Since many volunteers from other agencies will be assisting, what information systems experience will the volunteers bring with them? How will onsite training be managed?

- ▣ Information is presented for:
- ▣ DMORT Victim Identification Profile, WinID, and DNA Retrieval software/computer tips.
- ▣ This information is presented to encourage preliminary planning for your jurisdiction. As with any software application, determining the latest version and confirming its functionality and system requirements is necessary prior to use.



# Victim Identification Profile

## *VIP*

- ▣ The DMORT Victim Identification Profile (VIP), developed by Don Bloom (DMORT Family Affairs Division), is a software program that has been used since 1994 for all mass fatality events where Federal Government assistance has been requested. Its collection of both postmortem and victim antemortem data combined with its matching capabilities is what has made it so effective in the positive identification process.
- ▣ VIP Version 8.5, built on a customized FileMaker Pro 8.5 relational database platform, is user friendly, requires very little training, and allows photographs and illustrations to be inserted or accessed easily. Its relational table structure allows for unlimited field choices, along with faster searches and finds. VIP mirrors the DMORT mass fatality forms used to collect postmortem and antemortem data. Additional questions/forms can be added upon deployment.

# Data Collection

- ▣ Collection of postmortem and antemortem data.
- ▣ Easy integration of all Digital media, enabling Investigators to look at all antemortem and postmortem records including Digital media.
- ▣ VIP data can import or exchange data with a SQL data source or any popular databases.
- ▣ VIP data has powerful reporting on all data fields for data analysis in-house or for export to various data sources.

# Matching Capabilities

- ▣ Matching Capabilities:
- ▣ Search and find criteria and advanced matching capability.
- ▣ Manages VIP information by giving instant access to all details, exploiting the Fast Match feature that lets users quickly search data without the time-consuming burden of typing.
- ▣ Fast comparisons of Clothing and Jewelry inventory between the antemortem and postmortem screens.

# Matching Capabilities

- ▣ Features Specific to Working with Families of Victims:
- ▣ VIP can be deployed to multiple sites with web publish of the 8 page VIP Interview Form that collects antemortem data.
- ▣ Next of kin lists tied to victim.
- ▣ DNA work lists for tracking DNA workflow.
- ▣ Call logs to record multiple contacts with families.
- ▣ Release work lists to allow those working in release to better track workflow, keep updated with family contacts, and communicate with the morgue operations.

# Authentication

- ▣ Access controls.
- ▣ All users have their own user name and password.



# Auditing

- ▣ The VIP database and the Web Publishing feature of VIP both produce audit trails that are stored as ASCII text files.
- ▣ Audit trail information can be used for non-attack problems. The information can help locate mistakes made by authorized users and identify users who should receive additional training.

# General VIP Requirements

- ❑ VIP Version 8.5 is built on a customized FileMaker Pro 8.5 relational database.
- ❑ VIP will run on both Windows and Macintosh platforms including a mixed environment.
- ❑ VIP can be used in conjunction with SAS analytical software to identify and correct data entry errors, such as zip codes that are accidentally keyed into address fields.

# Postmortem Section

## Requirements at the Morgue

- ▣ Mid-range computers, monitors, and keyboards or laptops at all morgue stations.
- ▣ These computers should be equipped with a CD drive and burner and external drive (250-500GB) for data transfer and archiving, and be fully network capable.
- ▣ Digital cameras and ports for both memory card and USB input of images.
- ▣ Scanners with both document and film scan capability.
- ▣ Printers.
- ▣ Microsoft office Professional 2007 and Filemaker Pro 8.5 or 9.

# Requirements at the FAC

- ❑ Mid-range computers, monitors, and keyboards or laptops. These computers should be equipped with a CD drive and burner and external drive (250-500GB) for data transfer and archiving, and be fully network capable.
- ❑ Digital cameras and ports for both memory card and USB input of images.
- ❑ Scanners with both document and film scan capability.
- ❑ Printers.
- ❑ Microsoft office Professional 2007 and Filemaker Pro 8.5 or 9.
- ❑ To increase accuracy of data, it is recommended that these *DNA Retrieval Data Management Suggestions* workstation suggestions be considered when collecting antemortem data.
- ❑ Two monitors, one oriented toward the individual performing the data entry, the other oriented toward the family member (allowing the family member to validate information as it is entered).
- ❑ A device that electronically captures the donor's signature; these devices are already in use in some retail stores (if needed).
- ❑ A printer for creating copies of forms to be given to the donor at the end of the interview.
- ❑ A digital camera to photograph personal items.

# Center

- ▣ Two mid-range computers, monitors, and keyboards or laptops. These computers should be equipped with a CD drive and burner and jump drive (100MB-1G) drive for data transfer and archiving. These computers are networked together for instantaneous image file transfer.
- ▣ Printer.



# Fatality Equipment



# Fatality Equipment



# Fatality Equipment









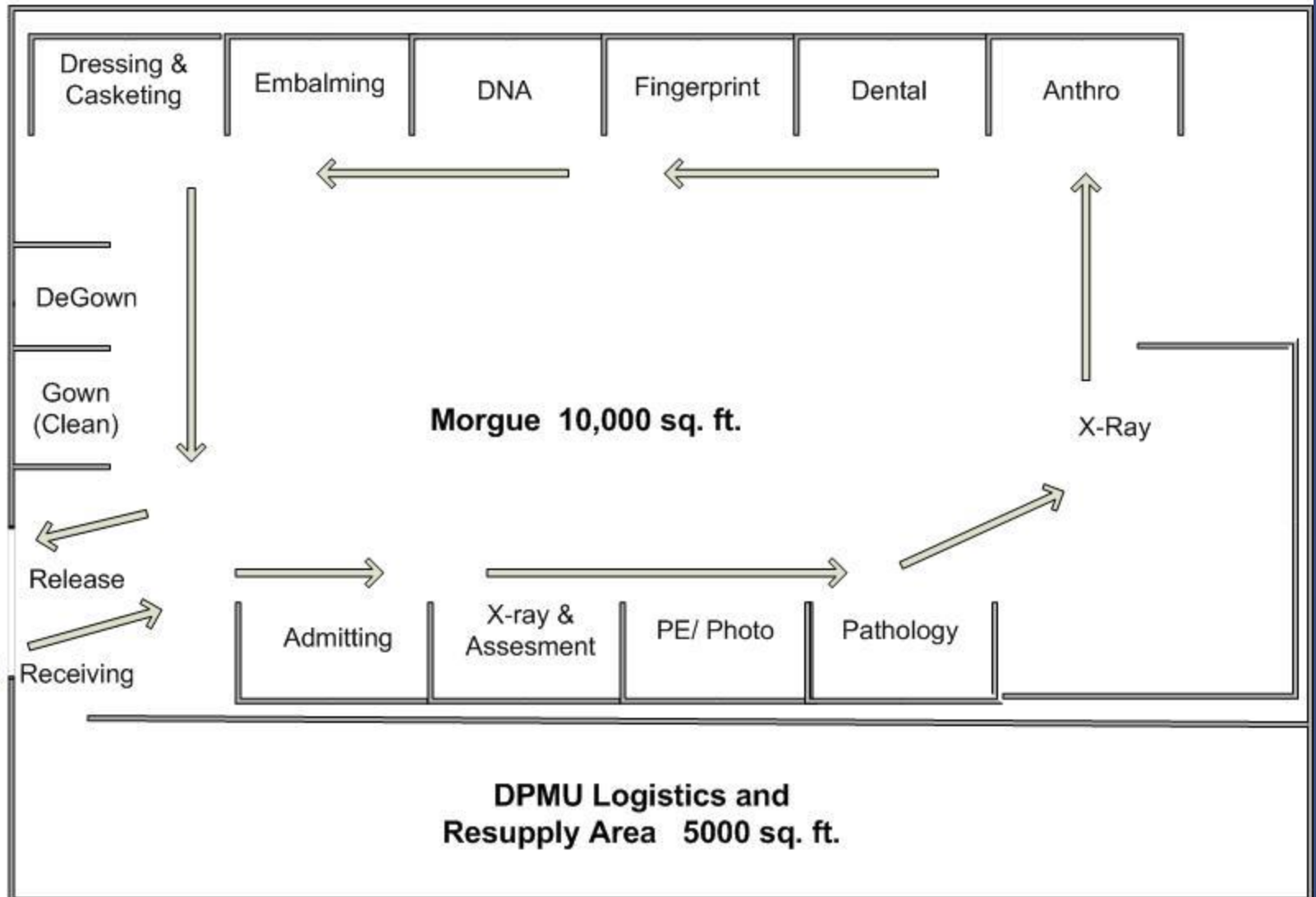


# Portable Morgue Stations

- ☐ ☐ Admitting / Receiving
- ☐ ☐ Gowning / de-gowning
- ☐ ☐ Photography
- ☐ ☐ Personal Effects
- ☐ ☐ Pathology
- ☐ ☐ Odontology
- ☐ ☐ Anthropology
- ☐ ☐ Radiology
- ☐ ☐ Fingerprints
- ☐ ☐ DNA
- ☐ ☐ Embalming
- ☐ ☐ Dressing and Casketing
- ☐ ☐ Release
- ☐ ☐ Ceremonial Area

# DMORT DPMU

Morgue and Flow Layout  
Total Sq. Ft. 15,000



# Size Needed

Minimal size of 10,000-12,000.00 square feet

- DPMU re-supply and staging area, minimum of 5,000 square feet
- More square footage may be necessary for casket storage or other mission-specific needs

## Site Requirements

- Structure Type
- Hard, weather-tight roofed structure
- Separate accessible office space for IRC
- Separate space for administrative needs/personnel

# MOMORT Portable Morgue





# Body Entering the Morgue













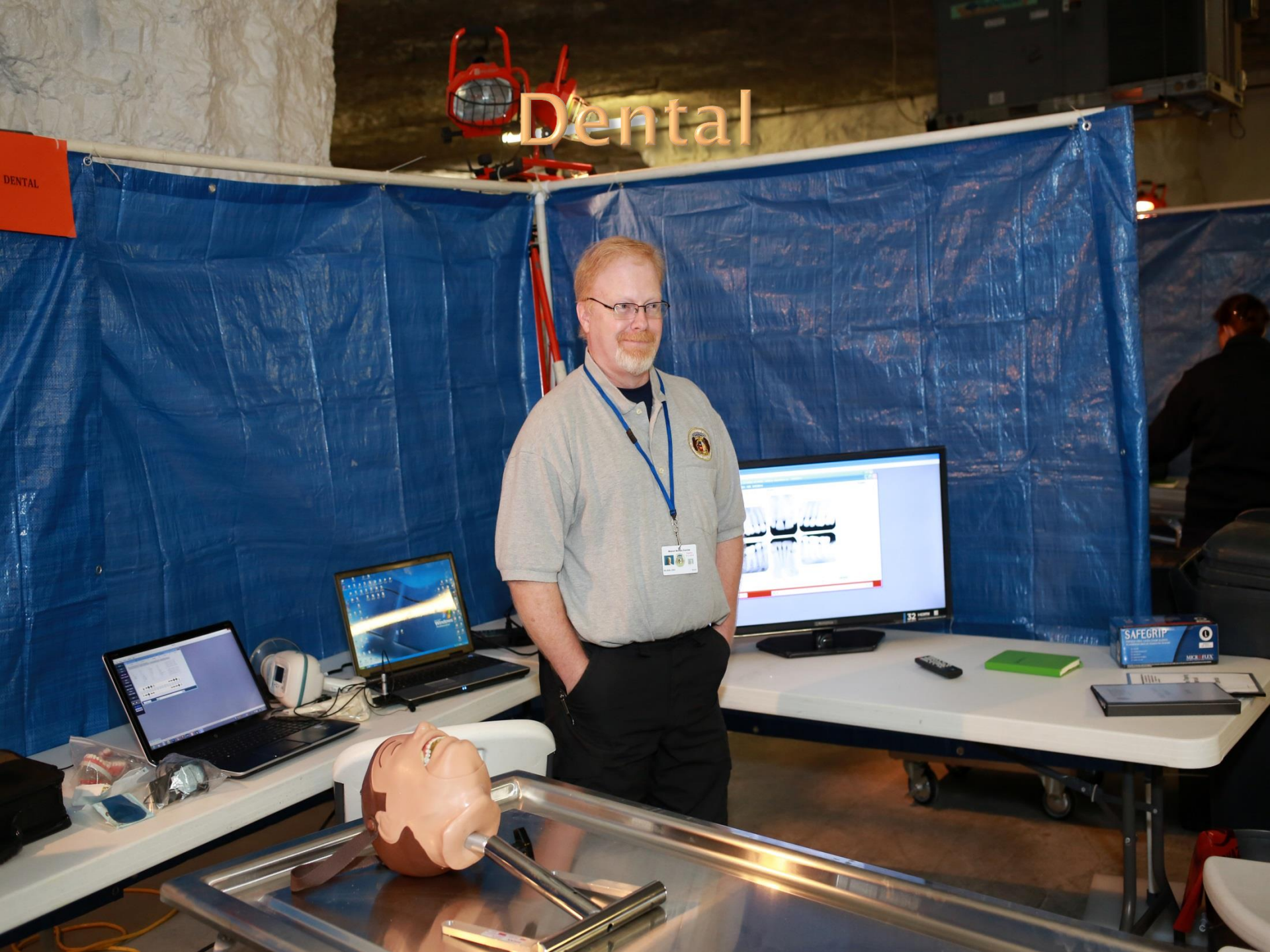
# Fingerprints





# Dental

DENTAL





# Anthropology





ADMIN.





# Pathology





# DNA

DNA









# Trailer Management







# Transportation













ERATIONS



# MOBILE COMMAND CENTER

## MEDICAL EX























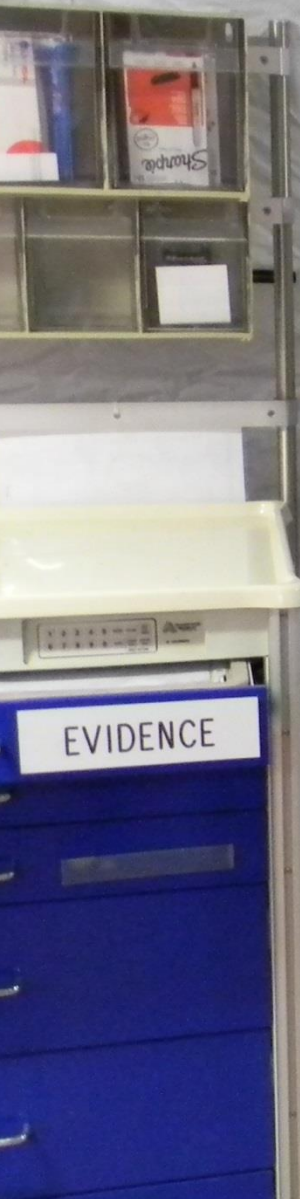












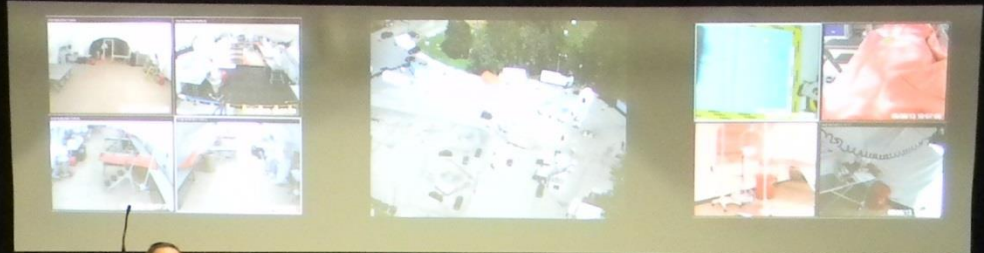












Remains Storage  
Facility &  
Transportation  
Supervisor

Assistant FM  
Branch  
Director  
Superior

Assistant FM  
Branch  
Director  
Senior

FM Branch  
Director

Health & Human

Department of  
Defense /  
Title 10  
Representative

Logistics  
Section



# Coroner Regional Caches

- ▣ Will be placed into 5 region within the State.
- ▣ Troop D,E,I,B and F.
- ▣ A,C,G and H will be covered by either Kansas City or St. Louis Regions.

# Coroners Regional Caches

- ▣ Cost of 24,000.00 to help with the initial response to mass fatalities.
- ▣ Kit were composed of items that were recommended from the MoDRS meeting with Coroners in Branson, Mo in 2012.



# Coroners Kits

PPE kit (glasses, gloves, gown, and mask)  
Headlamp  
Flash light  
Helmet  
Clip Board VIP Forms  
Glow Stick  
Water  
First Aid Kit  
Safety Vest  
Weather proof tablet  
Radio's and GPS (Only in the team leads kits)







# Missouri National Guard

- ▣ Have 10 member full trained fatality recovery team available 24-7.
- ▣ Can be called upon by the locals to provide body recovery.
- ▣ Personnel can be used to assist in the set up of the DPMU.
- ▣ Can also be used for trailer management.





# Missouri Task Force 1

## MoDRS



MoDRS is working on final details on partnering with the MO Task Force 1. MoDRS has agreed to deploy with the Task Force to provide an onsite Emergency Room and Enhanced Force Protection capabilities.



# Questions

Contact Information:

Kevin Tweedy, EMT-P, CCEMT-P

Deputy Commander

[ktweedy@modrs.org](mailto:ktweedy@modrs.org)

Join

Karen Cook

[kcook@modrs.org](mailto:kcook@modrs.org)

MODRS.ORG

